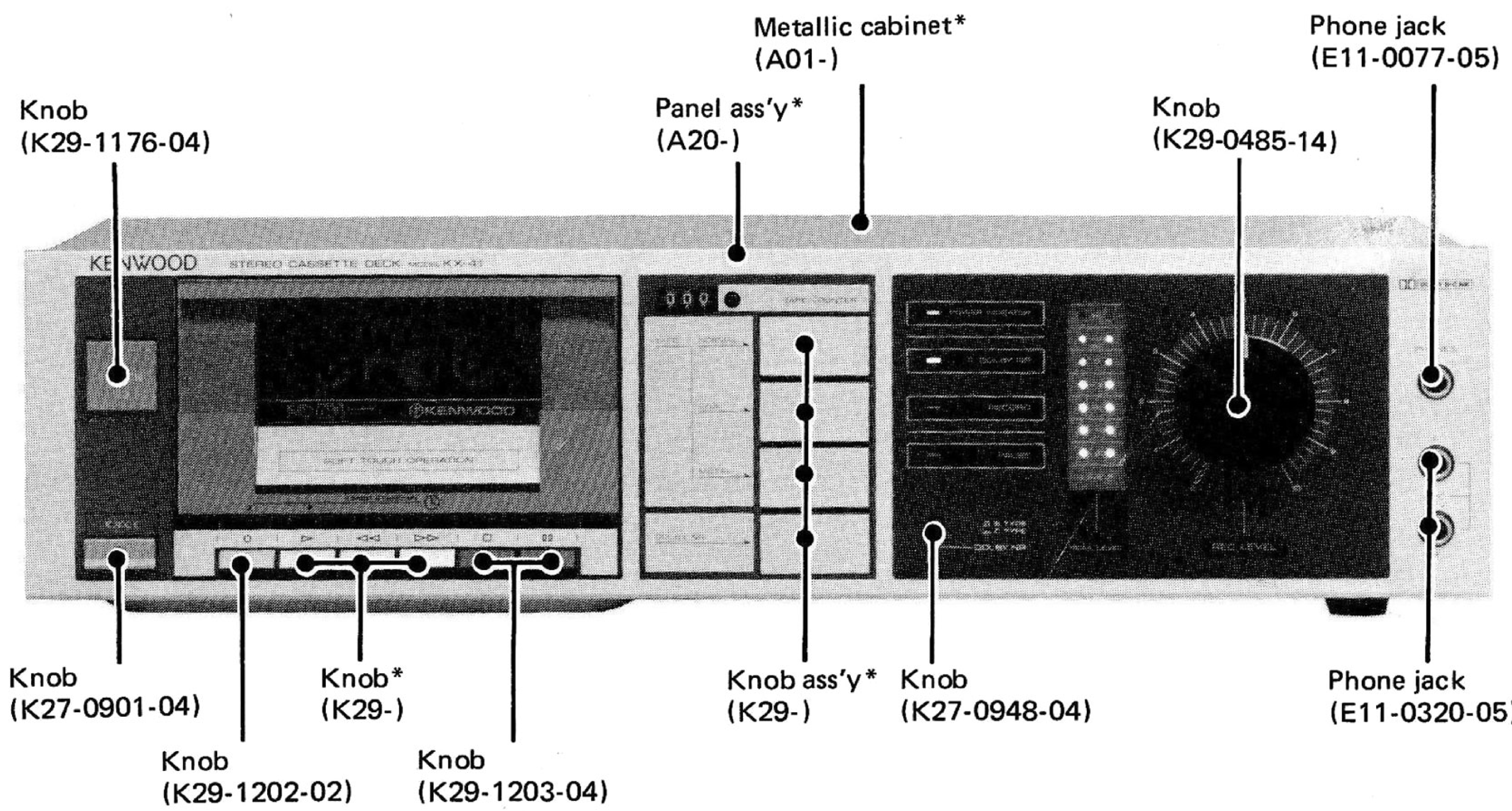
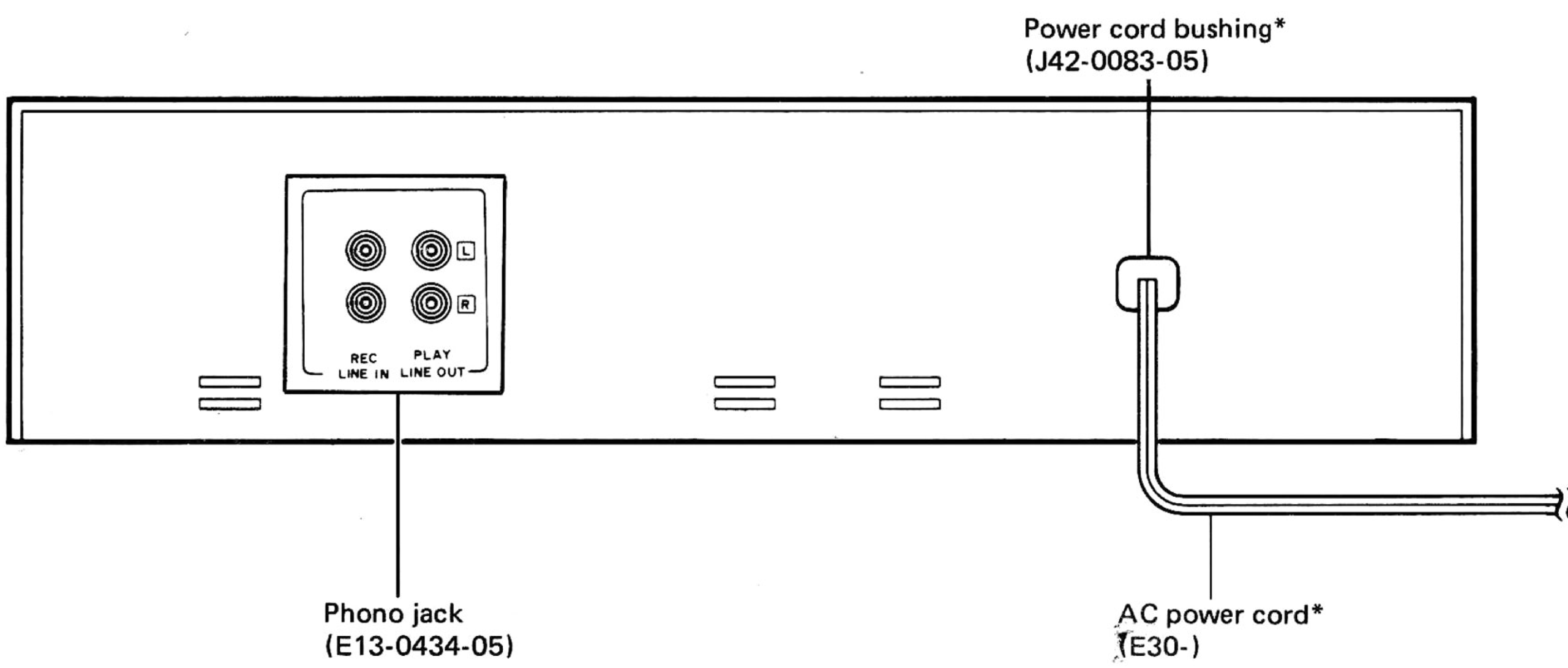
SERVICE MANUAL

KENWOOD

KX-41
KX-41B

STEREO CASSETTE DECK





* Refer to parts list on page 10.

Refer to KX-100/31 Service manual on mechanism description. Photo is KX-41.

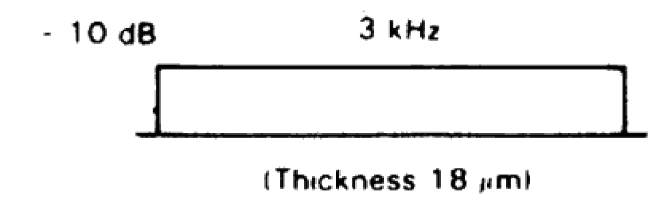
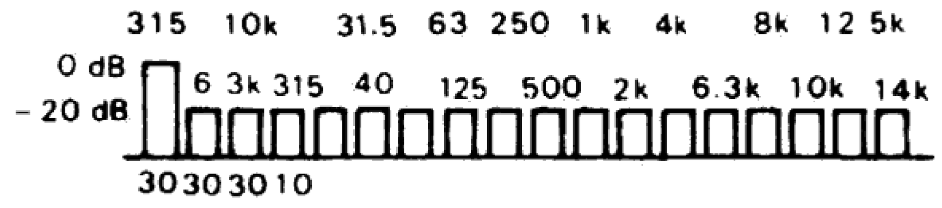
ADJUSTMENT/REGLAGES/ABGLEICH

1 Test Tapes

a) Test tapes for recording section adjustment
Normal: KENWOOD ND-60, TDK AD C-60
CrO_2: KENWOOD CD-60, TDK SA C-60
Metal: KENWOOD MD-60, TDK MA C-60

Note:
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

TEST TAPE SPECIFICATIONS

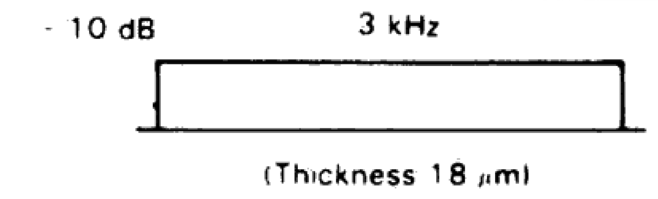
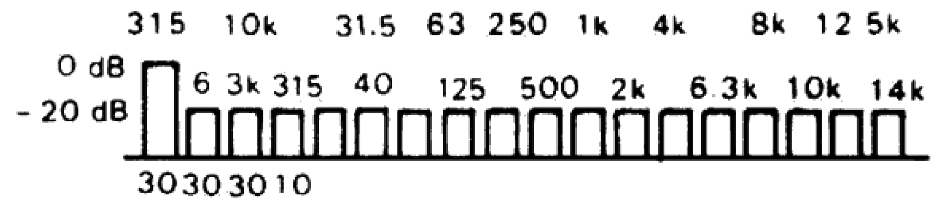
MODEL	TITLE	TIME CONSTANT	DESCRIPTION		APPLICATION
			FREQ/LEVEL	PROGRAM	
MTT-111	FLUTTER	—	3 kHz –10 dB	 30 Min.	Tape Speed Test Wow and flutter Test
MTT-256	FREQUENCY	3180 μs and 120 μs	315 Hz ~ 14 kHz 0 dB/–20 dB 0 dB = DIN REFERENCE LEVEL –4 dB		FREQUENCY Response Test

1 Bandes d'essai

a) Bandes d'essai pour réglage de la section enregistrement
Normal: KENWOOD ND-60, TDK AD C-60
CrO_2: KENWOOD CD-60, TDK SA C-60
Metal: KENWOOD MD-60, TDK MA C-60

Remarque:
La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories.
Le système de réduction du bruit de fond est fabriqué sous license des Dolby Laboratories.

SPECIFICATIONS DE LA BANDE

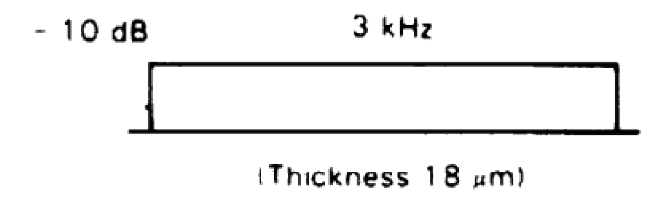
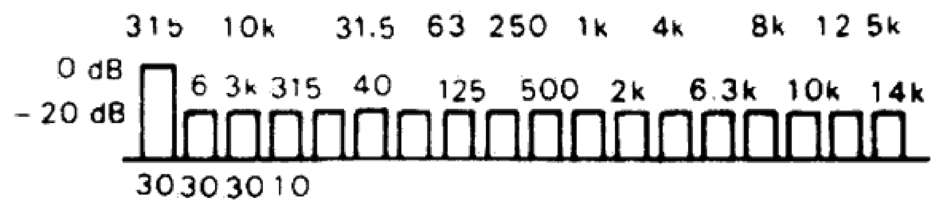
MODELE	TITRE	CONSTANTE DE TEMPS	DESCRIPTION		APPLICATION
			FREQ./NIVEAU	PROGRAMME	
MTT-111	FLUTTER	—	3 kHz –10 dB	 30 Min.	Vitesse de défilement Pleurage et scintillement
MTT-256	FREQUENCY	3180 μs et 120 μs	315 Hz ~ 14 kHz 0 dB/–20 dB 0 dB = Niveau de référence DIN –4 dB		Réponse en fréquence Azimut

1 Bezugsbänder

a) Bezugsbänder für Abgleich von Aufnahmeteil
Normalband: KENWOOD ND-60, TDK AD C-60
CrO_2 Band: KENWOOD CD-60, TDK SA C-60
Reineisenband: KENWOOD MD-60, TDK MA C-60

Hinweis:
DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories. Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

TECHNISCHE DATEN DER BEZUGSBÄNDER

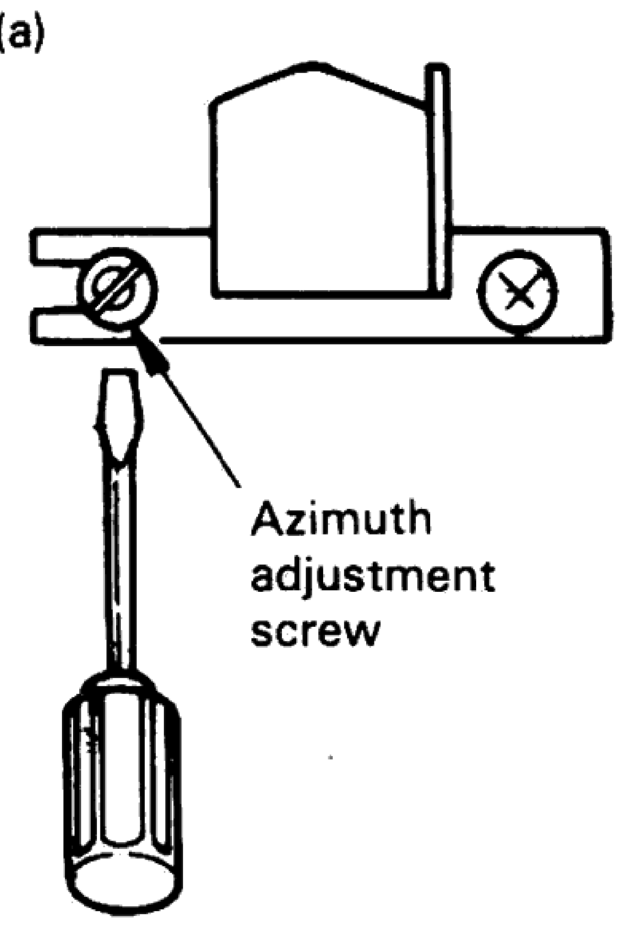
TYP	BEZEICHNUNG	ZEITKONSTANTE	BESCHREIBUNG		ANWENDUNG
			FREQ/PEGEL	PROGRAM	
MTT-111	Gleichlauf- schwankungen (FLUTTER)	—	3 kHz –10 dB	 30 Min.	Bandlaufgeschwindigkeits-Prüfung Gleichlaufschwankungs-Prüfung
MTT-256	Frequenzgang (FREQUENCY)	3180 μSek. und 120 μSek.	315 Hz ~ 14 kHz 0 dB/–20 dB 0 dB = DIN-Bezugspegel –4 dB		Prüfung des Frequenzgangs

ADJUSTMENT

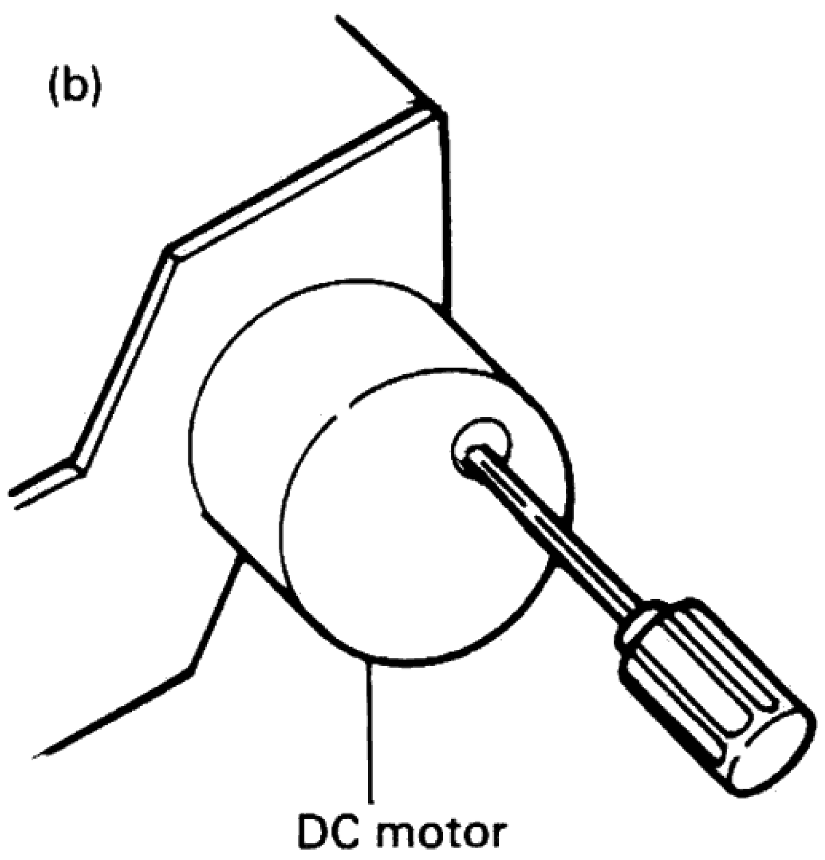
0 dBs = 0.775V

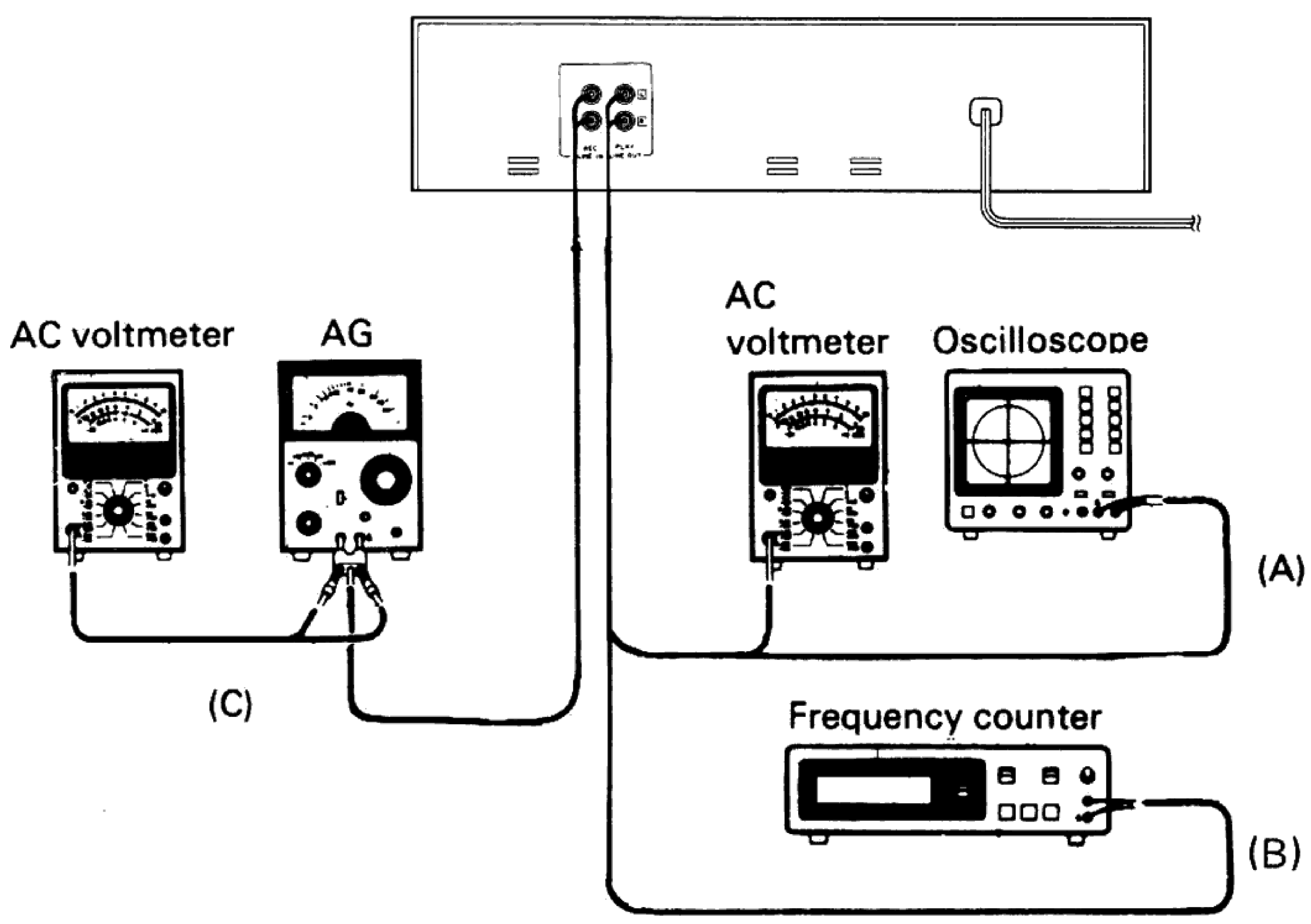
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION							
REC/PLAY HEAD							
[1]	**DEMAGNETI-ZATION**	–	–	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	**CLEANING**	–	–	PLAY	REC/PLAY head erase head, capstan, pinch roller	Clean the REC/PLAY head erase head, capstan and picnh roller using a cotton swab slightly damped with alcohol.	
[3]	**AZIMUTH**	MTT-256 10 kHz –20 dB	(A)	PLAY	Azimuth adjust-ment screw	Adjust the azimuth adjustment screw so that both channel output levels are maximized, then lock the screw with adhesive.	(a)
DC MOTOR							
(i)	**TAPE SPEED**	MTT-111	(B)	PLAY	Trimming potentiometer in the DC motor (for capstan drive)	Frequency: 3000 Hz	(b)
PC BOARD (X28-1570-10)							
(1)	**PLAYBACK LEVEL**	MTT-256 315 Hz 0 dB	(A)	PLAY	VR1(L) VR2(R)	Output level: –9 dBs	
(2)	**RECORD LEVEL**	(C) 1 kHz –10 dBs	(A)	Rec → Playback	VR3(L) VR4(R)	Adjust LINE REC LEVEL potentiometer so that the output at LINE OUT of –9 dBs is obtained. After recording, playback and check so that the output of LINE OUT is –9 dBs.	
(3)	**BIAS CURRENT**	(C) 1 kHz, –30 dBs 10 kHz, –30 dBs	(A)	Record 1 kHz, 10 kHz signal alternately and playback.	VR7(L) VR8(R)	Adjust VR7 (VR8) so that the playback output level of 10 kHz is equal to that of 1 kHz.	
(4)	**LED PEAK LEVEL METER**	(C) 1 kHz –10 dBs	(A)	REC PAUSE	VR5(L) VR6(R)	Adjust LINE REC LEVEL so that output at LINE OUT of –9 dBs is obtained. Adjust VR5 (VR6) so that 0 dB LED segment is completely lit.	

(a)



(b)



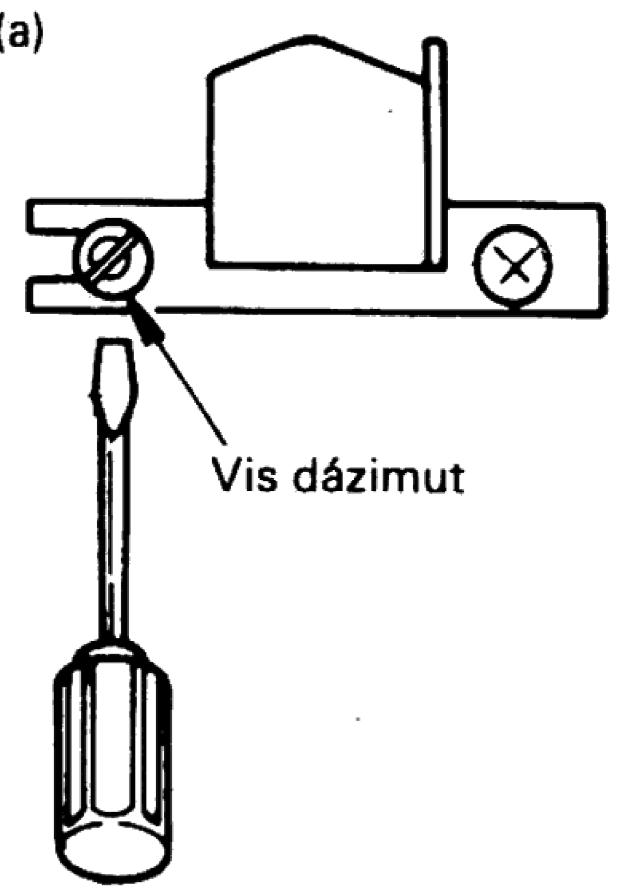


REGLAGES

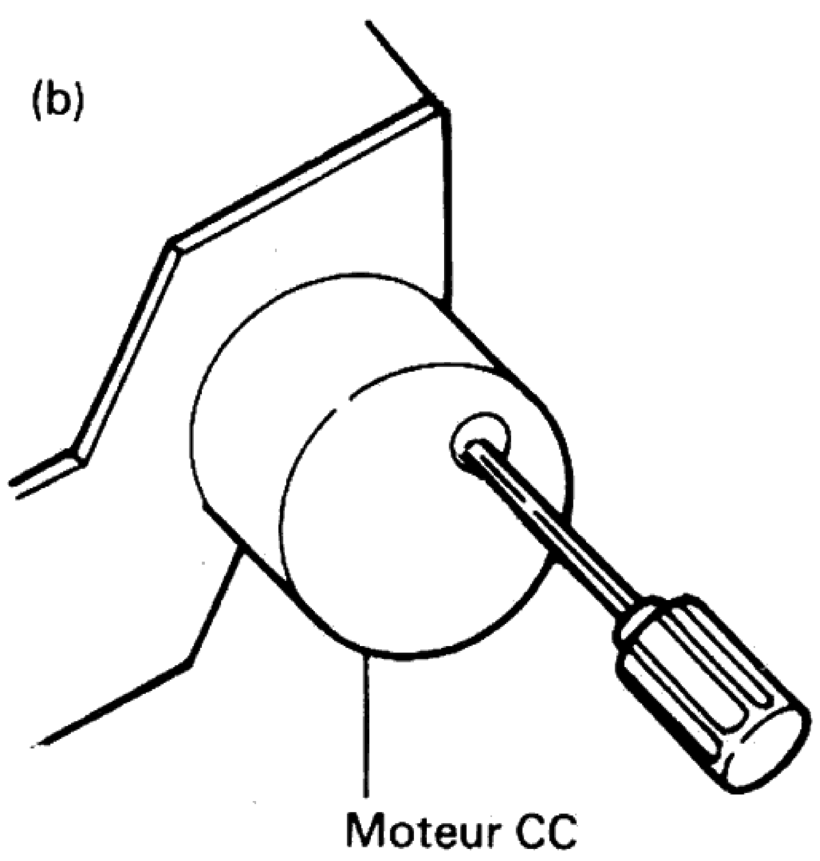
0 dBs = 0,775V

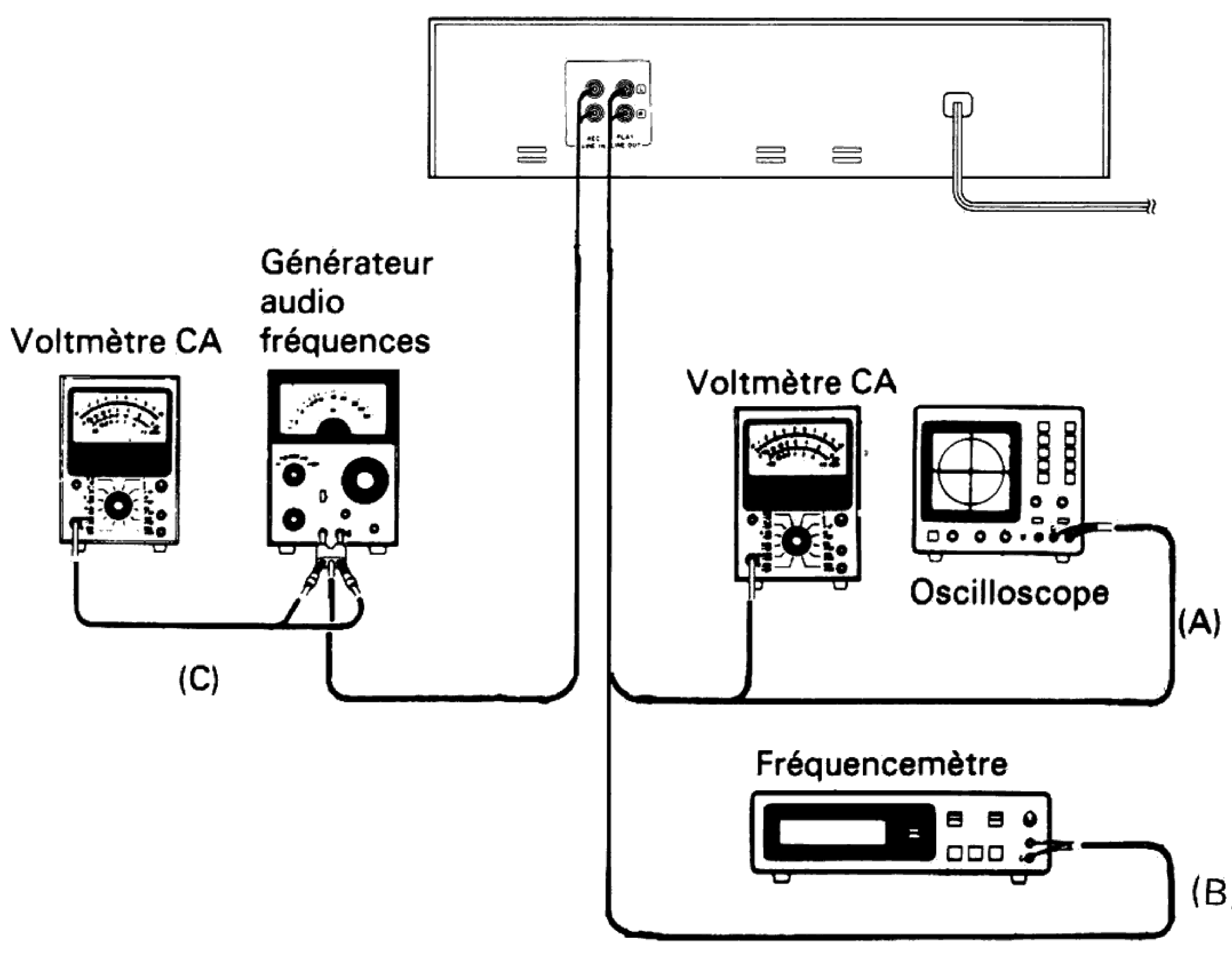
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE					TAPE SELECTEUR DE TYPE DE BAND: NORMAL		
TETE DE ENREGISTREMENT/LECTURE							
[1]	**DEMAGNETISATION**	–	–	POWER: OFF Élogner la porte.	Tête de ENREGISTREMENT/ LECTURE.	Demagnittiser la tête de ENREGISTREMENT/ LECTURE avec un démagnétiseur de tête.	
[2]	**NETTOYAGE**	–	–	PLAY	Tête de ENREGISTREMENT/ LECTURE. Tête de effacement, cabestan, Galet-presseur.	Nettoyer la tête de ENREGISTREMENT/LECTURE, la tête déffacement, le cabestan et le galetpresseur avec un coton-tige légèrement imbibé alcool.	
[3]	**AZIMUT**	MTT-256 10 kHz –20 dB	(A)	PLAY	Vis d'azimut	Régler la vis d'azimut en sorte que les deux niveaux de sortie de canal soient au maximum, puis bloquer la vis avec l'adhésif.	(a)
MOTEUR CC							
(i)	**VITESSE DE DEFILEMENT**	MTT-111	(B)	PLAY	Résistance adjustable du moteur CC (pour entraînement du cabestan)	Fréquence: 3000 Hz	(b)
PLAQUE IMPRIMEE (X28-1570-10)							
(1)	**NIVEAU DE LECTURE**	MTT-256 315 Hz 0 dB	(A)	PLAY	VR1(G) VR2(D)	Niveau de sortie: –9 dBs	
(2)	**NEVEAU D'ENREGISTREMENT**	(C) 1 kHz –10 dBs	(A)	Enregistrement → Lecture	VR3(G) VR4(D)	Régler le potentiomètre LINE REC LEVEL de façon á obtenir une LINE OUT de –9 dBs. Après l'enregistrement faire la lecture et vérifier que la LINE OUT soit comprise entre –9 dBs.	
(3)	**COURANT DE POLARISATION**	(C) 1 kHz, –30 dBs 10 kHz, –30 dBs	(A)	Enregister alternativement les signaux de 1 kHz et 10 kHz, puis faire la lecture.	VR7(G) VR8(D)	Régler VR7 (VR8) en sorte que le niveau de sortie de lecture de 10 kHz égale celui de 1 kHz.	
(4)	**INDICATEUR DE NIVEAU DE CRETE A DIODE LED**	(C) 1 kHz –10 dBs	(A)	REC PAUSE	VR5(G) VR6(D)	Réguler LINE REC LEVEL de façon qu'on puisse obtenir LINE OUT de –9dBs. Ajuster VR5 (VR6) de daçon que le segment de diode LED 0 dB soit complètement allumé.	

(a)



(b)



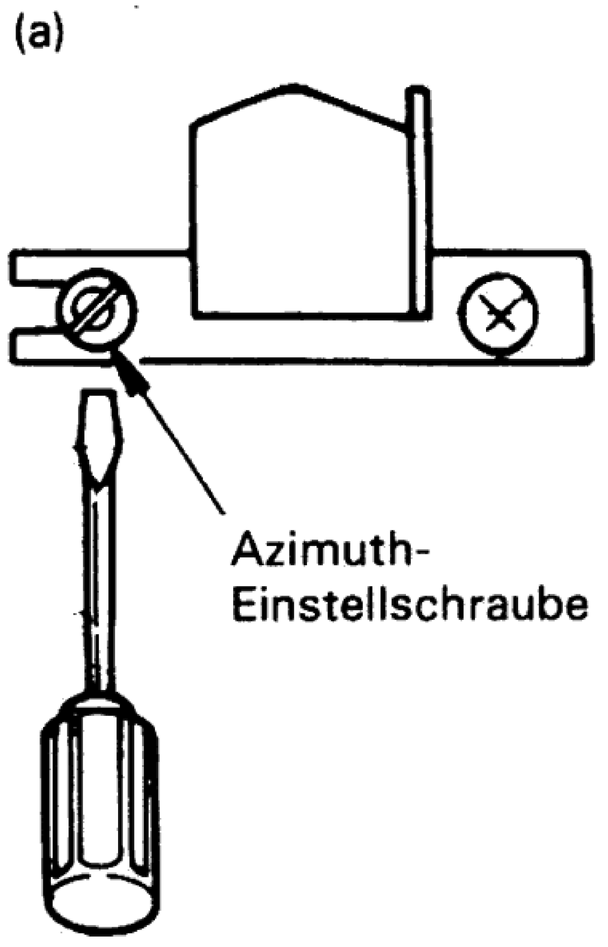


ABGLEICH

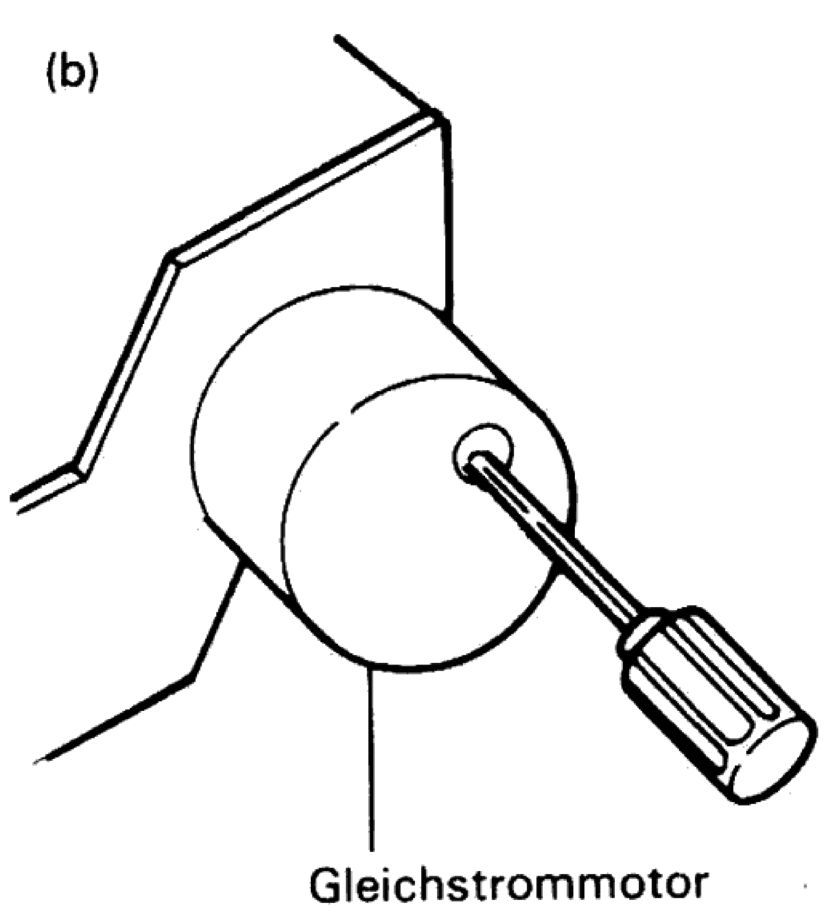
0 dBs = 0,775V

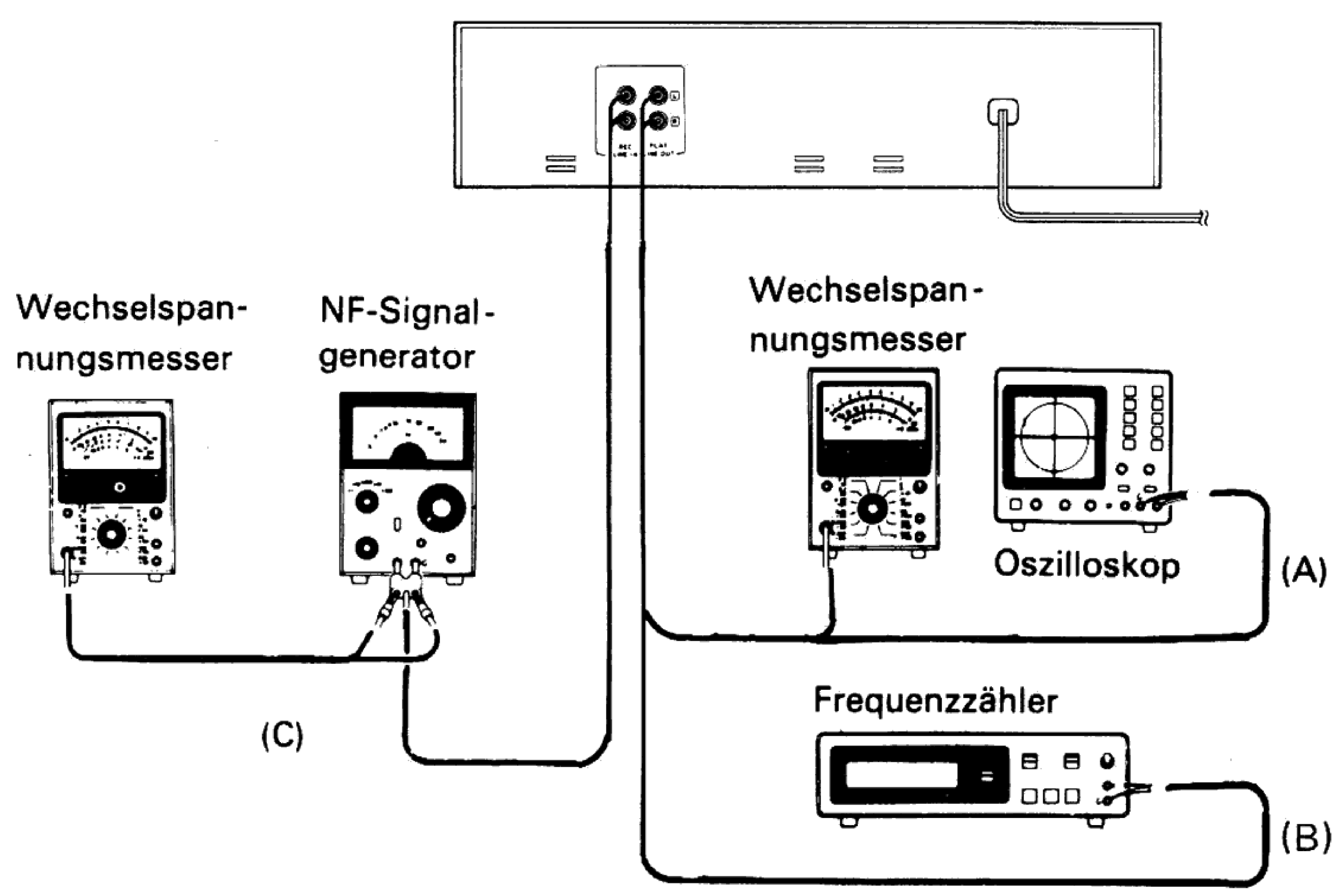
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTEN-GERÄT-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG				TAPE BANDSORTENWÄHLER: NORMAL			
AUFNAHME/WIEDERGABE-KOPF							
[1]	**ENTMAGNETI-SIERUNG**	–	–	POWER: OFF Den Kassettenfach deckel oven herauszeihen.	AUFNAHME/ WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	**REINGUNG**	–	–	PLAY	AUFNAHME/ WIEDERGABE-Kopf, Löschkopf, Tonwelle, Andruckrolle	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuch-teten Wattebausch reiningn.	
[3]	**AZIMUTH-EINSTELLUNG**	MTT-256 10 kHz –20 dB	(A)	PLAY	Azimuth-Einstellschraube	Einstellung von Azimuth Ein-stellschraube so daß beide Kanal Ausgangspegel maximal sind, dann die Schraube mit Klebstoff festlegen.	(a)
GLEICHSTROMMOTOR							
(i)	**BANDGESCH-WINDIGKEIT**	MTT-111	(B)	PLAY	Trimmer potentio-meter am Gleich-strommotor (für Tonwellen-antreieb)	Frequenz: 3000 Hz	(b)
GEDRUCKTE SCHALTPLATTE (X28-1570-10)							
(1)	**WIEDERGABE-PEGEL**	MTT-256 315 Hz 0 dB	(A)	PLAY	VR1(L) VR2(R)	Ausgangspegel: –9 dBs	
(2)	**AUFNAHME-PEGEL**	(C) 1 kHz –10 dBs	(A)	Aufnahme → Wiedergabe	VR3(L) VR4(R)	Stellen Sie LINE REC LEVEL so ein, daß man bei LINE OUT einen Ausgang von –9 dBs erhält. Drauf Auf-nahme, Wiedergabe und stellen Sie sicher, daß der Ausgang von LINE OUT –9dBs liegt. Wenn dieser Pegel nicht er-reicht ist, nechstellen Sie VR3 (VR4) ein.	
(3)	**LEERLAUF-STROM**	(C) 1 kHz, –30 dBs 10 kHz, –30 dBs	(A)	Aufnehmen das Signal von 1 kHz und 10 kHz abwechselnd und Vorlesung	VR7(L) VR8(R)	Abgleich von VR7 (VR8) so daß der Abspiel-Ausgangspegel von 10 kHz dem von 1 kHz gleich ist.	
(4)	**LED-SPITZEN-PEGELMESSER**	(C) 1 kHz –10 dBs	(A)	REC PAUSE	VR5(L) VR6(R)	Stellen Sie LINE REC LEVEL so ein, daß man bei LINE OUT einen Ausgang von –9 dBs erhält. Stellen Sie VR5 (VR6) so ein, daß das 0 dB-Segment vollständig leuchtet.	

(a)



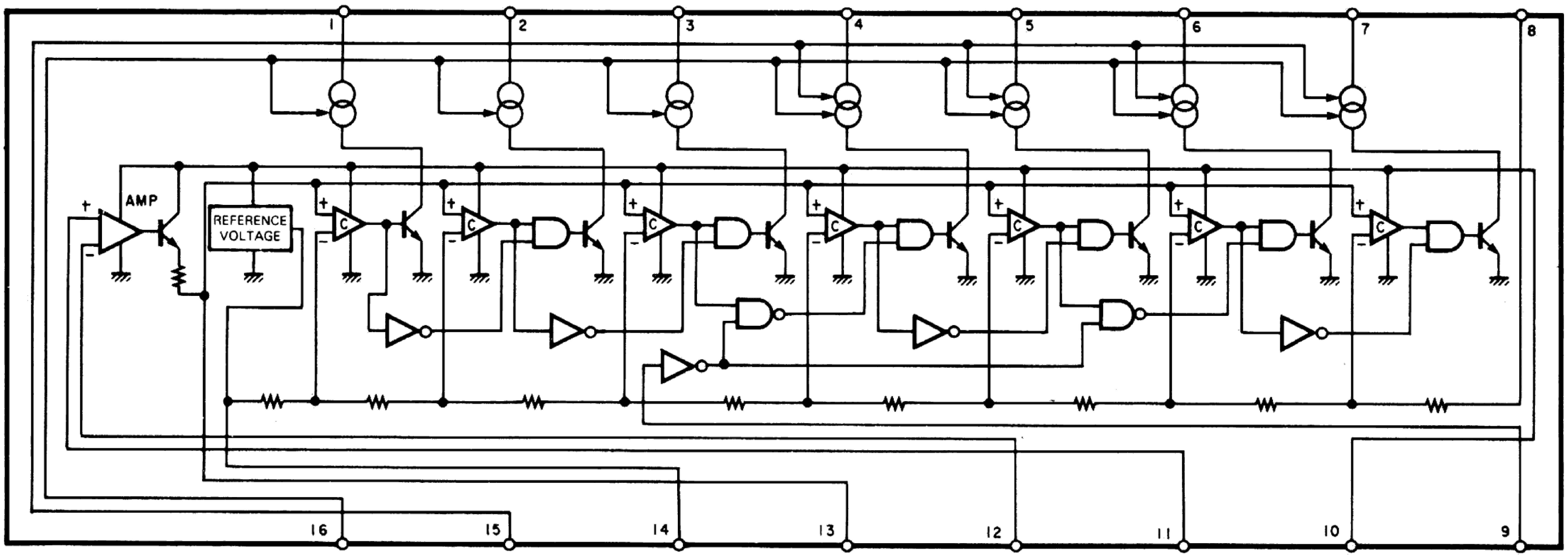
(b)



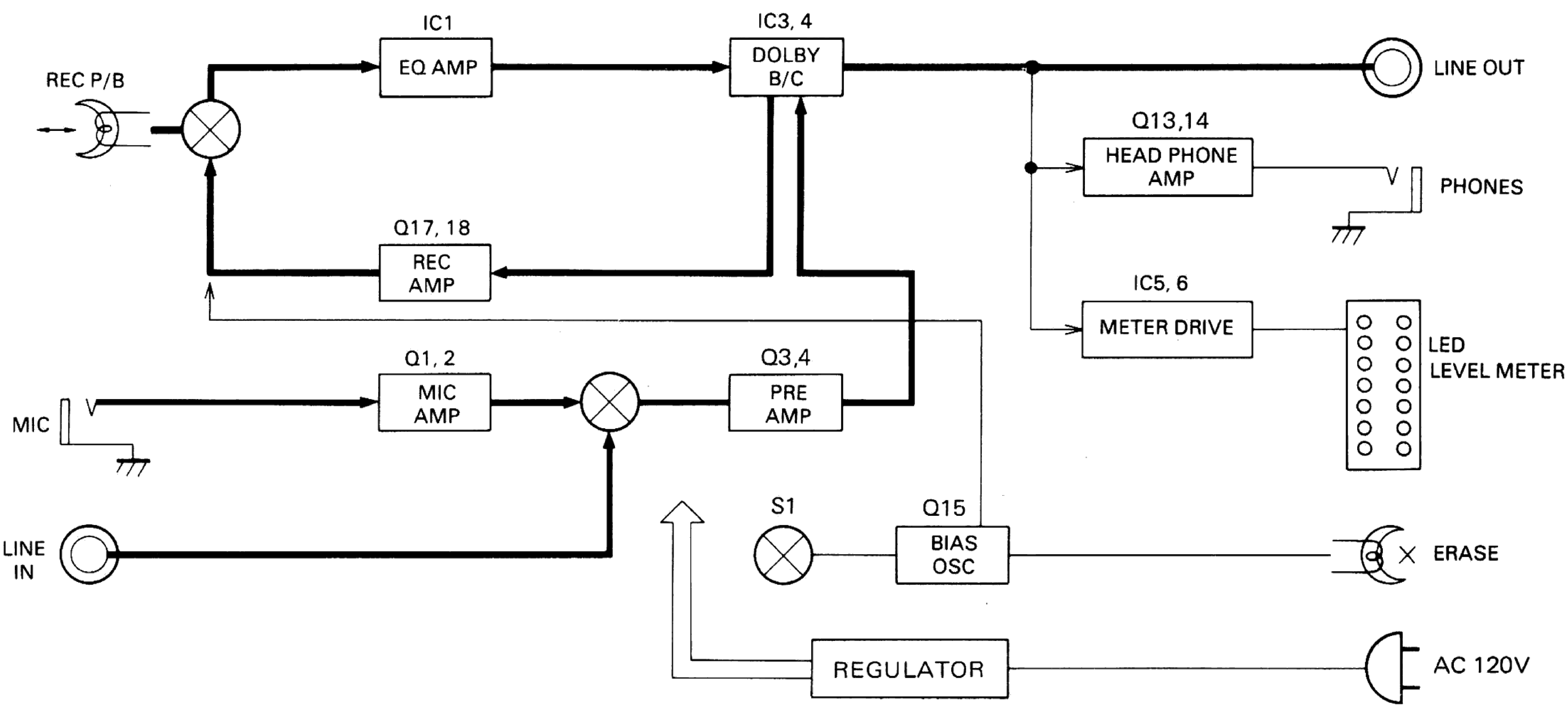


BLOCK DIAGRAM/SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM (AN6882)

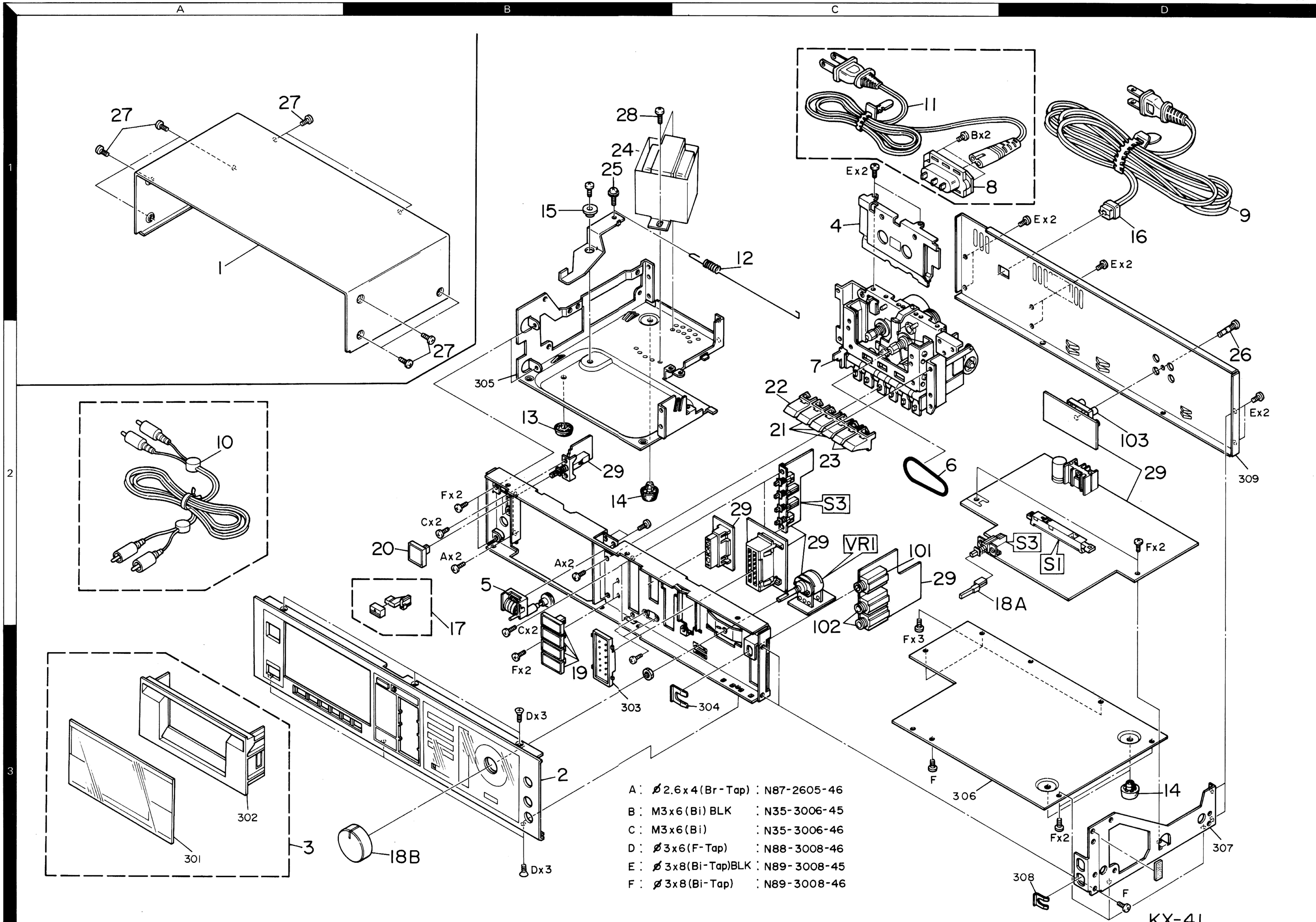


BLOCK DIAGRAM



EXPLODED VIEW

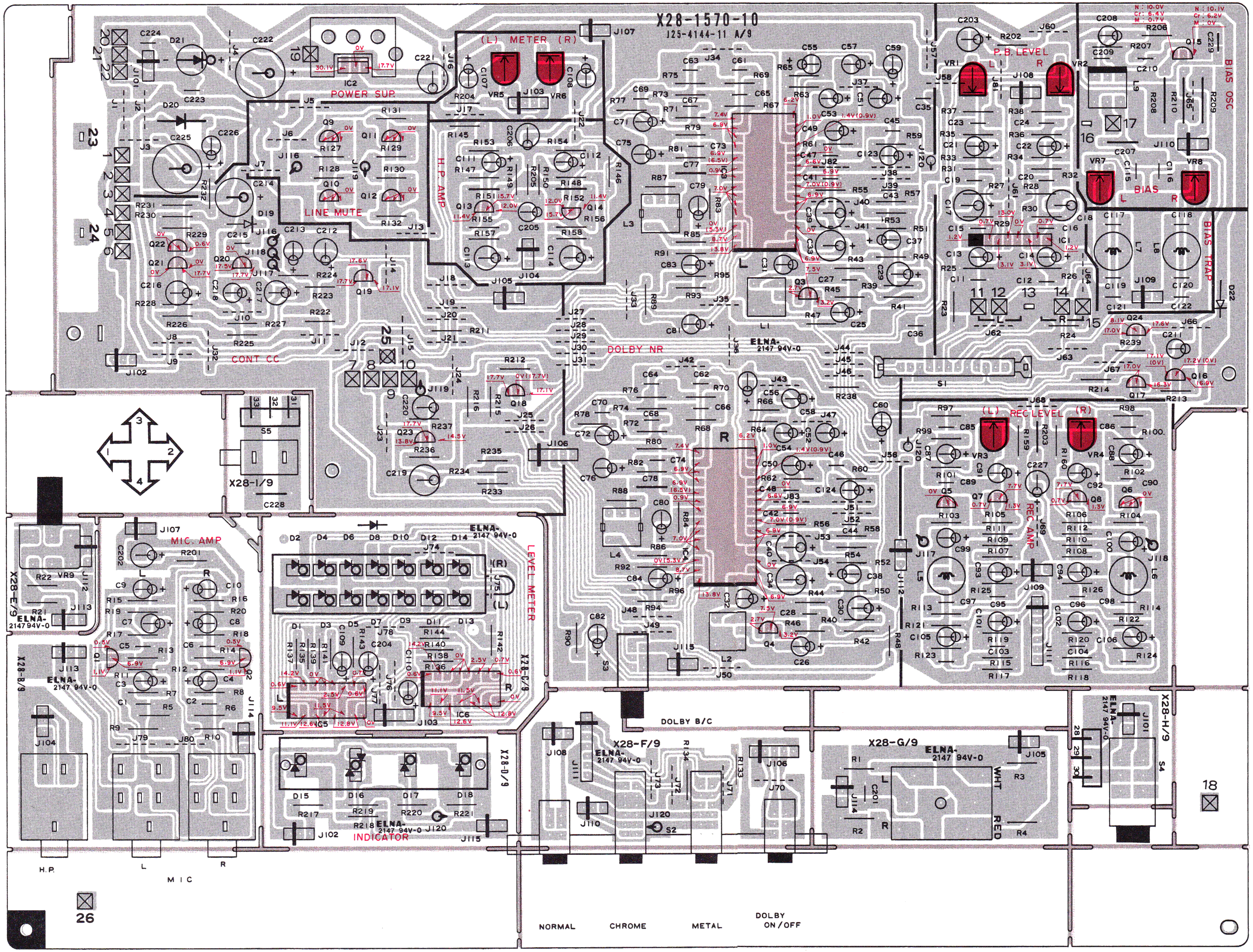
Exploded No. lager than 300 are not supplied.



Refer to parts list on page 10.

PC BOARD

RECORD/PLAYBACK (X28-1570-10) Component side view



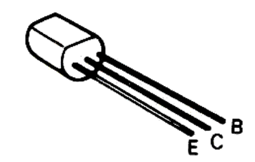
Refer to the schematic diagram for the values of capacitors and resistors.
The PC board drawing is viewed from the side easy to check.

KENWOOD

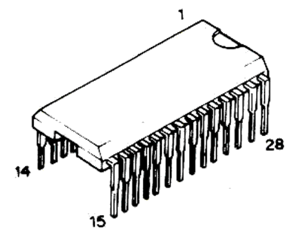
STEREO CASSETTE DECK

KX-41/41B

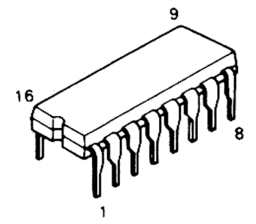
JA101
2SA733
2SA999
2SC1685
2SC1845
2SC1980
2SC2060
2SC2320
2SC945



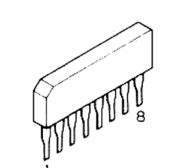
HA12038



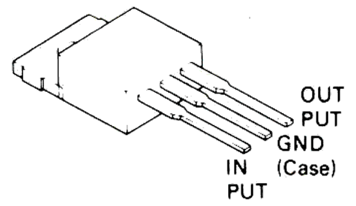
AN6882

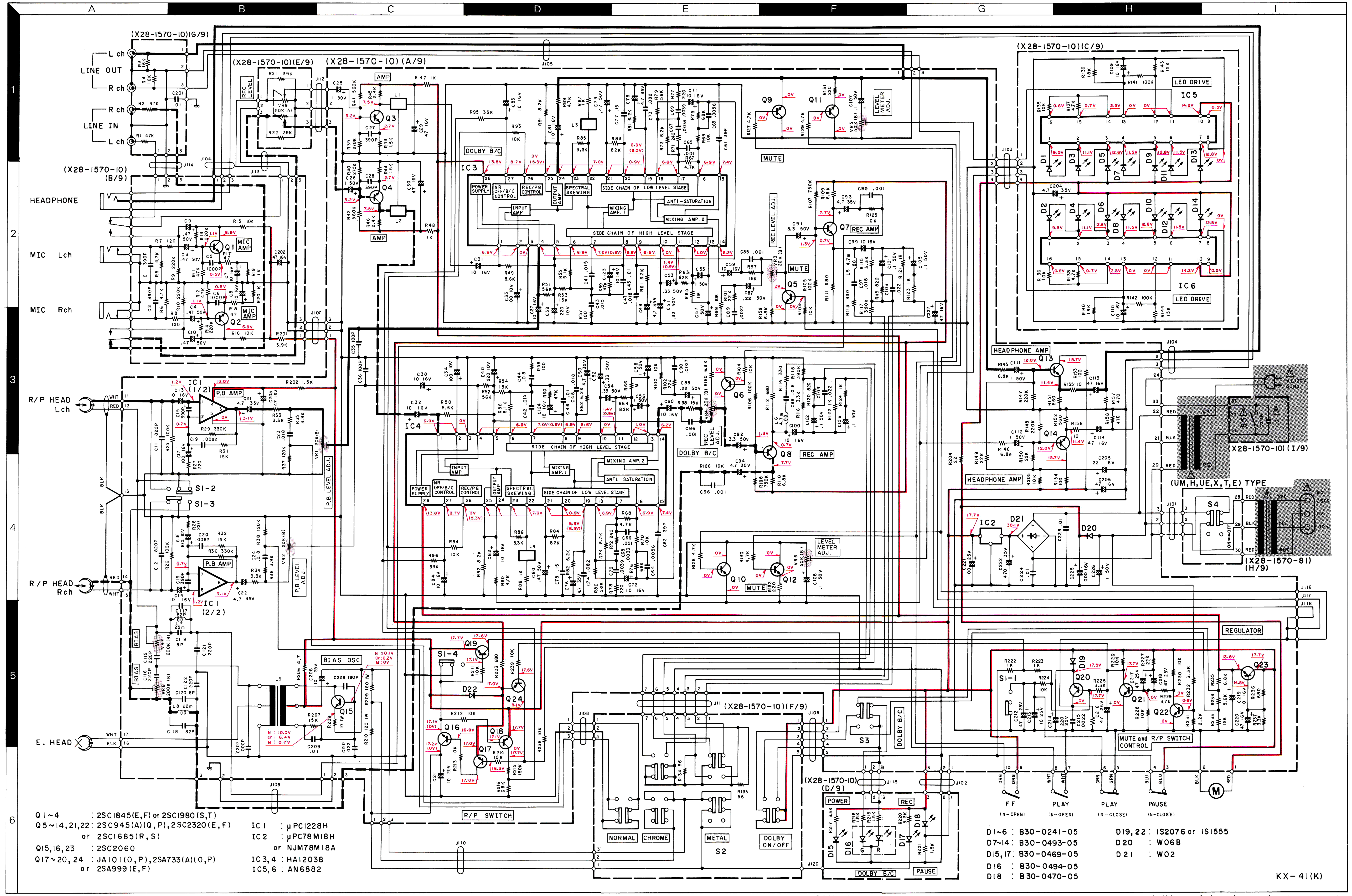


μPC1228H

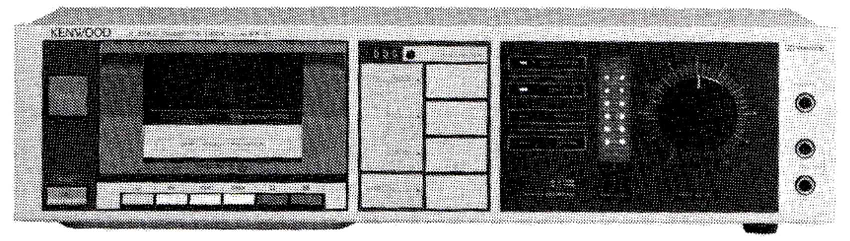


NJM78M18A
μPC78M18H





CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



SPECIFICATION

Type	Stereo cassette deck with Dolby B NR system (KX-31) Stereo cassette deck with Dolby B. C NR system (KX-41)
Track System	4-track, 2-channel stereo/mono, recording/playback
Recording System	AC bias system (Bias frequency: 105 kHz)
Erasing System	AC system
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and playback head × 1 (Hard permalloy with sendust guard) Erase head × 1 (Double gap ferrite head)
Motor	Electronically controlled DC single motor
Fast Winding Time	Approx. 95 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ±3 dB)
CrO_2 Tape	20 Hz to 17,000 Hz (30 Hz to 16,000 Hz, ±3 dB)
Metal Tape	20 Hz to 17,000 Hz (30 Hz to 16,000 Hz, ±3 dB)
Signal-to-Noise Ratio	see below
Harmonic Distortion	Less than 1.0% (at 1 kHz, 0 VU with Normal tape)
Wow and Flutter	0.045% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE × 2	77.5 mV/50 kohms
Microphones × 2	0.7 mV/3.3 kohms
Output Level/Load Impedance:	
LINE × 2	270 mV/50 kohms
Headphones × 1	50 mV/8 ohms
Built-in Features	Dolby B noise reduction system (KX-31) Dolby B. C noise reduction system (KX-41) Tape selector (Normal/CrO_2/Metal) 7-LED peak level meters (−20 dB to +6 dB) Full auto shut off mechanism in all modes Timer stand by mechanism Three digit tape counter Two microphone jacks Headphone jack
Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada models AC 120V/220-240V (Switchable), 50/60 Hz: Other countries
Power Consumption	15 watts
Dimensions	W: 440 mm (17-5/16") H: 117 mm (4-39/64") D: 232 mm (9-1/8")
Weight	4.0 kg (8.8 lb)
Supplied Accessories	Audio cable × 2 Head cleaning set × 1
Reference Tapes	Normal: KENWOOD ND-60 CrO_2: KENWOOD CD-60 Metal: KENWOOD MD-60

Signal-to-Noise Ratio:

(KX-31)	Dolby ON	Dolby OFF
Normal tape:	67 dB	57 dB
CrO_2 tape:	67 dB	57 dB
Metal tape:	67 dB	57 dB

(KX-41)	Dolby B ON	Dolby C ON	Dolby OFF
Normal tape:	67 dB	75 dB	57 dB
CrO_2 tape:	67 dB	75 dB	57 dB
Metal tape:	67 dB	75 dB	57 dB

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegeben Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegeben Gleichspannungswerte der Vormagnetisierungsschaltung wurder in der Aufnahme-Betriebsart gemessen.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

⚠ **Indicates safety critical component.**

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KX-41/41B			
1	1A		A01-0473-03	METALLIC CABINET	KPUMH	
1	1A		A01-0473-03	METALLIC CABINET	UEXTE	
1	1A		A01-0633-03	METALLIC CABINET	K	
2	3B	*	A20-3518-03	PANEL ASSY	KPUMH	
2	3B	*	A20-3518-03	PANEL ASSY	UEXE	
2	3B	*	A20-3537-03	PANEL ASSY	T	
2	3B	*	A20-3577-03	PANEL ASSY	K	
3	3A		A53-0056-04	CASSETTE LID ASSY	KPUMH	
3	3A		A53-0056-04	CASSETTE LID ASSY	UEXTE	
3	3A		A53-0080-04	CASSETTE LID ASSY	K	
4	1C		B03-0228-03	DRESSING PLATE	K	
4	1C		B03-0232-03	DRESSING PLATE	KPUMH	
4	1C		B03-0232-03	DRESSING PLATE	UEXTE	
5	2B		B35-0019-05	TAPE COUNTER		
-			B46-0092-03	WARRANTY CARD	KK	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UHUE	
-			B46-0095-03	WARRANTY CARD	UHUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-4564-00	INSTRUCTION MANUAL	KUHUE	
-			B50-4564-00	INSTRUCTION MANUAL	K	
-			B50-4565-00	INSTRUCTION MANUAL	PMX	
-			B50-4566-00	INSTRUCTION MANUAL	M	
-			B50-4567-00	INSTRUCTION MANUAL	E	
-			B50-4568-00	INSTRUCTION MANUAL	T	
-			B59-0092-00	SERVICE DIRECTORY	UHUE	
6	2C		D16-0076-04	BELT		
7	2C		D40-0262-05	MECHANISM ASSY		
⚠ 8	1C		E03-0102-15	AC INLET	UMHUE	
⚠ 8	1C		E03-0102-15	AC INLET	XTE	
⚠ 9	1D		E30-0181-05	AC POWER CORD	KPK	
10	2A		E30-0505-05	AUDIO CORD		
10	2A		E30-1353-05	AUDIO CORD		
⚠ 11	1C		E30-1305-15	AC POWER CORD (INLET)	UMHUE	
⚠ 11	1C		E30-1328-15	AC POWER CORD (INLET)	T	
⚠ 11	1C		E30-1329-05	AC POWER CORD (INLET)	E	
⚠ 11	1C		E30-1342-05	AC POWER CORD (INLET)	X	
12	1C	*	G01-1372-04	EXTENSION SPRING		
-		*	H01-4792-04	ITEM CARTON CASE	KPUMH	
-		*	H01-4792-04	ITEM CARTON CASE	UEXE	
-		*	H01-4793-04	ITEM CARTON CASE	T	
-		*	H01-4807-04	ITEM CARTON CASE	K	
-			H10-1660-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-1107-04	PROTECTION COVER	KPUH	
-			H20-1107-04	PROTECTION COVER	UEXTE	
-			H20-1107-04	PROTECTION COVER	K	
-			H20-1109-04	PROTECTION COVER	M	
-			H25-0078-04	PROTECTION BAG		
13	2B		J02-0109-05	FOOT (4.2MM)		

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PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

⚠Indicates safety critical component.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
14	2B,3D		J02-0343-05	FOOT (10MM)		
15	1B		J31-0179-04	COLLAR		
⚠ 16	1D		J42-0083-05	POWER CORD BUSHING	KPK̲	
17	2B		K27-0901-04	KNOB (EJECT)		
18A	2C		K27-0948-04	KNOB (DOLBY-C)		
18B	3B		K29-0485-14	KNOB (REC LEVEL)		
19	3B		K29-1172-04	KNOB ASSY (SELECTOR)	KPUMH	
19	3B		K29-1172-04	KNOB ASSY (SELECTOR)	U̲E̲XTE	
19	3B		K29-1278-04	KNOB ASSY (SELECTOR)	K̲	
20	2B		K29-1176-04	KNOB ASSY (POWER)		
21	2C		K29-1201-04	KNOB (PLAY,FF,REW)	KPUMH	
21	2C		K29-1201-04	KNOB (PLAY,FF,REW)	U̲E̲XTE	
21	2C		K29-1277-04	KNOB (PLAY,FF,REW)	K̲	
22	2C		K29-1202-04	KNOB (REC)		
23	2C		K29-1203-04	KNOB (STOP,PAUSE)		
⚠ 24	1B		L01-3051-05	POWER TRANSFORMER	KPK̲	
⚠ 24	1B		L01-3054-05	POWER TRANSFORMER	UMHU̲E̲	
⚠ 24	1B		L01-3054-05	POWER TRANSFORMER	XTE	
25	1B		N09-0287-05	SEMUS(TAPTITE SCREW)		
26	2D		N09-0292-05	SCREW		
27	1A,1B		N09-0377-05	TAPTITE SCREW	KPUMH	
27	1A,1B		N09-0377-05	TAPTITE SCREW	U̲E̲XTE	
27	1A,1B		N89-3008-45	TAPTITE SCREW	K̲	
28	1B		N09-0831-04	TAPTITE SCREW		
-			W01-0301-05	CLEANING STICK		
29	2C,2D	*	X28-1570-10	RECORD/PLAYBACK UNIT	KPK̲	
29	2C,2D	*	X28-1570-81	RECORD/PLAYBACK UNIT	UMHU̲E̲	
29	2C,2D	*	X28-1570-81	RECORD/PLAYBACK UNIT	XTE	
RECORD/PLAYBACK (X28-1570-10)						
D1 -6			B30-0241-05	LED (PEAK LEVEL)		
D7 -14			B30-0493-05	LED (PEAK LEVEL)		
D15			B30-0469-05	LED (POWER)		
D16		*	B30-0494-05	LED (DOLBY B/C)		
D17			B30-0469-05	LED (REC)		
D18			B30-0470-05	LED (PAUSE)		
C207			C91-0343-05	POLYPRO 1000PF 630WV		
⚠ C228			C91-0079-05	CERAMIC 0.01UF AC125V	KPK̲	
101			E11-0077-05	PHONE JACK (HEADPHONE)		
102			E11-0320-05	PHONE JACK (MIC)		
103			E13-0434-05	PHONO JACK		
L1 ,2			L79-0312-05	LC FILTER		
L3 ,4			L39-0322-05	TRAP COIL		
L5 ,6			L40-4725-21	SMALL FIXED INDUCTOR(4.7MH)		
L7 ,8			L40-2235-21	SMALL FIXED INDUCTOR(22MH)		
L9			L32-0513-15	BIAS OSCILATING COIL		
R151,152			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R153,154			RD14GB2E101J	FL-PROOF RD 100 J 2E		
R203			RD14GB2E681J	FL-PROOF RD 680 J 2E		
R204			R92-0209-05	FUSE-RESIST 22 J 2E		
R206			R92-0514-05	FUSE-RESIST 4.7 2E		

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U̲E̲ : AAFES(Europe) **X**: Australia **M**: Other Areas

PARTS LIST

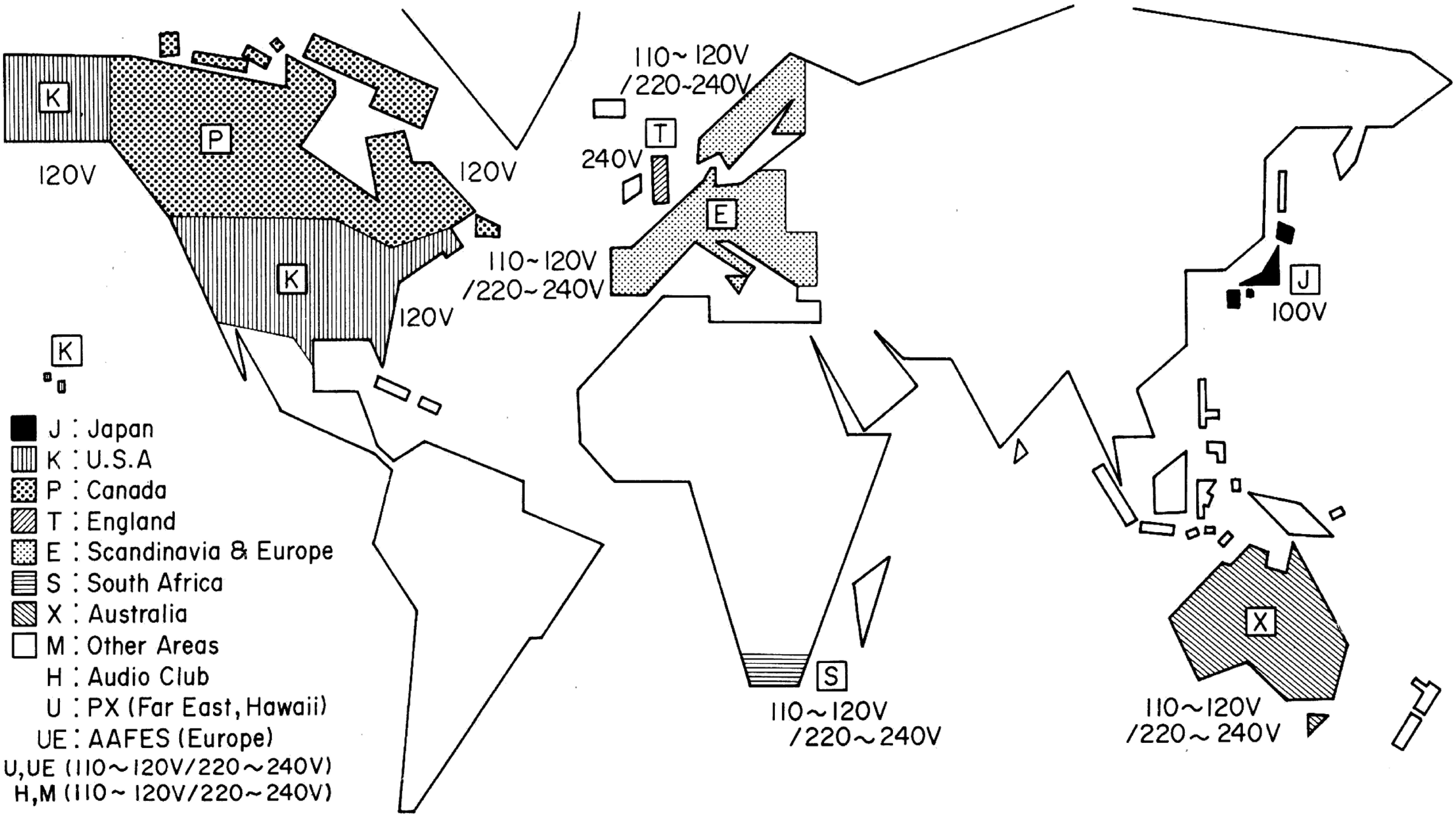
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⚠Indicates safety critical component.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
R208			RS14GB3A100J	FL-PROOF RS 10 J 3A		
R209			RS14GB3A181J	FL-PROOF RS 180 J 3A		
R210			RS14GB3A121J	FL-PROOF RS 120 J 3A		
VR1 -4			R12-3313-05	TRIMMING POT.(20KB)		
VR5 ,6			R12-4306-05	TRIMMING POT.(50KB)		
VR7 ,8			R12-5310-05	TRIMMING POT.(200KB)		
VR9			R06-4059-05	VARIABLE RESISTOR(50KA)		
S1		*	S31-4014-05	SLIDE SWITCH (REC/PLAY)		
S2			S42-4025-05	PUSH SWITCH(TAPE SEL,DOLBY)		
S3			S40-2153-15	PUSH SWITCH (DOLBY B/C)		
S4			S40-2173-05	PUSH SWITCH (POWER)	UMHUE	
S4			S40-2173-05	PUSH SWITCH (POWER)	XTE	
S5			S40-1067-05	PUSH SWITCH (POWER)	KPK	
D19			1S1555	DIODE		
D19			1S2076	DIODE		
D20			W06B	DIODE		
D21			W02	DIODE		
D22			1S1555	DIODE		
D22			1S2076	DIODE		
IC1			UPC1228H	IC		
IC2			NJM78M18A	IC		
IC2			UPC78M18H	IC		
IC3 ,4			HA12038	IC		
IC5 ,6			AN6882	IC		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q1 -4			2SC1980(S,T)	TRANSISTOR		
Q5 -14			2SC1685(R,S)	TRANSISTOR		
Q5 -14			2SC2320(E,F)	TRANSISTOR		
Q5 -14			2SC945(A)(Q,P)	TRANSISTOR		
Q15 ,16			2SC2060	TRANSISTOR		
Q17 -20			JA101(O,P)	TRANSISTOR		
Q17 -20			2SA733(A)(Q,P)	TRANSISTOR		
Q17 -20			2SA999(E,F)	TRANSISTOR		
Q21 ,22			2SC1685(R,S)	TRANSISTOR		
Q21 ,22			2SC2320(E,F)	TRANSISTOR		
Q21 ,22			2SC945(A)(Q,P)	TRANSISTOR		
Q23			2SC2060	TRANSISTOR		
Q24			JA101(O,P)	TRANSISTOR		
Q24			2SA733(A)(Q,P)	TRANSISTOR		
Q24			2SA999(E,F)	TRANSISTOR		
MECHANISM ASS'Y (D40-0262-05)						
–		*	D10-0325-08	PINTCH ROLLER ASSY		
–		*	D16-0073-08	FLAT BELT		
–		*	D16-0074-08	SQUARE BELT		
–		*	D16-0075-08	SQUARE BELT		
–		*	S46-1020-08	PLAY SWITCH		
–		*	S46-1021-08	PLAY LEVER SWITCH		
–		*	S46-1021-08	PAUSE SWITCH		
–		*	S46-1023-08	FR SWITCH		
–			T32-0010-05	ERASE HEAD		
–			T34-0018-05	R/P HEAD		
–			T42-0020-05	DC MOTOR		

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WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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